

HCEM100DUE9P5

✓ ACTIVE

First Sensor | First Sensor HCE

TE Internal #: 2003204-F

Digital Pressure and Altimeter Sensor Modules, Differential, 0 – 100 mbar [40.18 inH2O], 2.95 mmHG, 1.45 psi [.1 bar], First Sensor HCE

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Sensors > Pressure Sensors > Board Mount Pressure Sensors > HCE-Miniature Amplified Pressure Sensors



Board Level Pressure Sensor Type: Digital Pressure and Altimeter Sensor Modules

Board Level Pressure Sensor Style: Differential

Pressure: 2.95 mmHG

Proof Pressure Range: 1.2 bar

[All HCE-Miniature Amplified Pressure Sensors \(81\)](#)

Features

Product Type Features

Board Level Pressure Sensor Type	Digital Pressure and Altimeter Sensor Modules
Board Level Pressure Sensor Style	Differential

Configuration Features

Leads/Pins	J Lead
Tubes	Barb Tube

Electrical Characteristics

Board Level Pressure Sensor Supply Voltage	4.5 – 5.5 V
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Dimensions

Dimensions	17.7 x 16 mm[.696 x .629 in]
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Usage Conditions

Pressure	.1 bar[1.45 psi]
Operating Temperature Range	-25 – 85 °C[-13 – 185 °F]

Operation/Application

Resolution	14
Interface Type	Analog, SPI
Output Interface	Analog, SPI



Pressure	2.95 mmHG
Proof Pressure Range	1.2 bar
Output/Span	.25 – 4.25 V, 14 bit SPI
Board Level Pressure Sensor Accuracy	±0.5 %FSS

Packaging Features

Package Style	Dual Sideport
Board Level Pressure Sensor Package	8 pin SMD

Other

Sensor Options	Custom Ranges
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Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

EU RoHS Directive 2011/65/EU	Not Yet Reviewed
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	Not reviewed for China RoHS compliance
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2023 (233) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



TE Part # 2003483-F  
HCEB005DUE9P5; PRES; 0...5bar; 4V;  
5V

Also in the Series | First Sensor HCE

Board Mount Pressure Sensors(81)

Customers Also Bought

TE Part #8-188275-8  
MICRO-MATCH SMD FTE

TE Part #5-5179180-1  
0.8FH,R09H.5,040,08/Sn,TR,SC

TE Part #T4040034031-000  
M8.MLE.PNLREAR.3POS.STR  
PCBSHLD

TE Part #3-794629-6  
06P MICRO MNL ASSY,R/A,SMT,LF

TE Part #3-794627-4  
04P MICRO MNL ASSY,RA ,SMT, LF

TE Part #5145154-4  
STANDARD EDGE .050 SERIES 60  
DUAL ASSY

TE Part #7-2176087-9  
RP 1J 0.166W 453R 0.1% 25PPM 1K RL

TE Part #4-2176325-6  
CRGP 0402 56K 1%

TE Part #2003983-F  
HCEM010DUE9P5; PRES 0...10mbar 5V  
4V



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2003204-F\_1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2003204-F\_1.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2003204-F\_1.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

HCE-Miniature Amplified Pressure Sensors

English